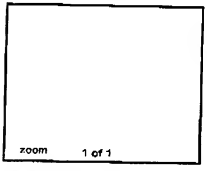
90637 MELAMINE FORMALDEHYDE RESIN size: 2 µm

EXHIBIT A

90637 Micro particles based on melamine resin

Fluka **size: 2 µm**



Synonym	Melamine-formaldehyde resin Size standards
MDL number	MFCD00197912

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Descriptions

Analysis Note

For every lot, exact values of particle size and standard deviation are determined with an accuracy of 0.01 µm using a Coulter Multisizer.
Density: 1.61 g/cm^3
Heat resistance <300 °C
Chemical resistance: acids, bases, organic solvents.
Monodispers melamin resin particles are characterized by high uniformity and narrow size distribution. They carry functional methylol groups, which can be used for covalent coupling of biological active compounds. Modifications by insertion of additional functional groups (e.g. carboxyl or hydroxy groups) are possible and can be made on request (contact your local representative).
Additional advantages of melamin resin particles are:

- e hydrophilic surfaces
- high degree of cross linking and high pressure resistance
- long term stability in aqueous media (freezing and thawing does not damage them)
- lyophylization and resuspension in aqueous media does not damage them (powders are available on request)
- no swelling in organic solvents

Other Notes

Template for preparing hollow spheres by self-organized deposition of nano-particles. The MF core dissolves at a pH below 1.6 [1]

Properties

form	suspension (aqueous)
concentration	10% (solids)
particle size	2 µm std dev <0.1 µm, coeff var <3%

References

Cited References 1. F. Caruso et al. *Science* 282, 1111, (1998) abstract

Safety

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